

## OIB - C-130 Hercules 11/08/13 Science Report

**Date:** Friday, November 8, 2013

**Mission:** OIB

**Mission Location:** Thule, Greenland

**Mission Summary:**

LVIS/LVIS-GH C130 OIB Jakobshavn Icesat Flight

Today we flew a version of the Jakobshavn-ICESat plan, modified for basing at Thule. We mapped portions of six ICESat lines over Jakobshavn, also flown by the P3 in the Spring. Two of the lines were also flown by LVIS in September 2007. The initial transit to/from the lines over the ocean was cloudy, but we collected data over the ice sheet to/from line start/end. Conditions along the ICESat lines was clear.

Plexiglass-laser related issues continue with the energy divot present in LVIS-GH data during the flight. By the end of the flight, 4 smaller-magnitude energy divots were apparent in the LVIS swath. However, we believe these are fuel-leak (oil and hydraulic) related. Window is cleaned every morning.

Both instruments operated normally

Both cameras operated normally

Calibration maneuvers attempted on transit to area and from area over ocean.

**Submitted by:** Michelle Hofton on 11/08/13

**File:**

 [lvis\\_icesatJak\\_20131108.pdf](#)

**Related Flight Report:**

### C-130 Hercules 11/08/13

**Flight Number:** 6

**Payload Configuration:** LVIS

**Nav Data Collected:** No

**Total Flight Time:** 7.7 hours

**Submitted by:** Cate Easmunt on 11/08/13

**Flight Segments:**

<b>From:</b>	BGTL	<b>To:</b>	BGTL
<b>Start:</b>	11/08/13 11:55 Z	<b>Finish:</b>	11/08/13 19:39 Z
<b>Flight Time:</b>	7.7 hours		
<b>Log Number:</b>	<a href="#">141001</a>	<b>PI:</b>	Michael Studinger
<b>Funding Source:</b>	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Next flight scheduled for Saturday November 9.		

**Flight Hour Summary:**

	131001	141001
<b>Flight Hours Approved in SOFRS</b>	100	
<b>Flight Hours Previously Approved</b>		52.5
<b>Total Used</b>	47.5	90.7
<b>Total Remaining</b>		-38.2
<b>141001 Flight Reports</b>		

Date	Flt #	Purpose of Flight	Duration	RunningTotal	HoursRemaining	Miles Flown
<a href="#">11/06/13</a>	5	Science	7.3	7.3	45.2	
<a href="#">11/08/13</a>	6	Science	7.7	15	37.5	
<a href="#">11/09/13</a>	7	Science	7.8	22.8	29.7	
<a href="#">11/12/13</a>	8	Science	5.4	28.2	24.3	
<a href="#">11/14/13</a>	9	Science	7.4	35.6	16.9	
<a href="#">11/15/13</a>	Return transit, leg 1	Transit	8.5	44.1	8.4	
<a href="#">11/15/13</a>	Return transit, leg 2	Transit	1.1	45.2	7.3	

**Source URL:** [https://airbornescience.nasa.gov/science\\_reports/OIB\\_-\\_C-130\\_Hercules\\_11\\_08\\_13\\_Science\\_Report#comment-0](https://airbornescience.nasa.gov/science_reports/OIB_-_C-130_Hercules_11_08_13_Science_Report#comment-0)

Page Last Updated: April 22, 2017

Page Editor: Brad Bulger

NASA Official: Bruce A. Tagg

*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

131001 Flight Reports						
Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">09/27/13</a>	FCF / ECF #1	Check	2	2	98	
<a href="#">10/26/13</a>	PCF	Check	3.7	5.7	94.3	
<a href="#">10/29/13</a>	Transit (incomplete)	Transit	5.2	10.9	89.1	
<a href="#">10/30/13</a>	Transit	Transit	7.9	18.8	81.2	
<a href="#">10/31/13</a>	1	Science	7.2	26	74	
<a href="#">11/01/13</a>	2	Science	7.3	33.3	66.7	
<a href="#">11/04/13</a>	3	Science	6.4	39.7	60.3	
<a href="#">11/05/13</a>	4	Science	7.8	47.5	52.5	